

# LAND RECLAMATION COMMISSION

## STATE OF MISSOURI

P.O. BOX 176  
JEFFERSON CITY, MISSOURI 65102  
573-751-4041

### Permit To Engage in Surface Mining

#### LAND RECLAMATION COMMISSION

#### ISSUES TO

#### NESTLE' PURINA PETCARE COMPANY – GOLDEN PRODUCTS DIVISION

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of  
clay in the state of Missouri. The extent of the


Proposed mining operation(s) will be on 413 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Stoddard	21	27N	11E	144	0	144	Site #1	0551
Stoddard	28, 29	27N	11E	89	0	89	Site #2	0552
Stoddard	04, 33	26N, 27N	11E	180	0	180	Site #3	0550

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

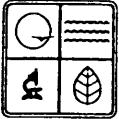
IN WITNESS WHEREOF I have hereunto set my hand this 14th day of May 2004

  
DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No. 0552  
Effective Date 05/30/2004  
Expiration Date 05/29/2005

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND RECLAMATION COMMISSION  
P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <b>Nestle' Purina Petcare Company-Golden Products Division</b>		DATE <b>4/16/04</b>	
ADDRESS <b>300 Airport Road</b>	CITY <b>Cape Girardeau</b>	STATE <b>MO</b>	ZIP CODE <b>63701</b>
CONTACT PERSON <b>William Cooper, Director of Product Supply</b>		TELEPHONE NUMBER <b>573-986-0150</b>	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. <b>Site #1 0551</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
2. <b>Site #2 0552</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
3. <b>Site #3 0550</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7. <b>P.O. Box</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9. <b>1086</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10. <b>CAPE G.</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL \$ <b>63702</b>		\$ 900.00

2. Acreage Fee \$5 X **413** number of acres bonded ..... \$ 2,065.00

3. Annual Permit Fee ..... \$ 500

4. Total Fee (Add totals from 1, 2 and 3) ..... \$ 3,465.00

NOTE: If Total Fee exceeds \$2,500.00 then pay only ..... \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee ..... \$ 300

SIGNATURE OF APPLICANT <i>[Signature]</i>	TITLE <b>Director of Product Supply</b>	DATE <b>4/16/04</b>
Appeared before me this <b>16th</b> day of <b>April</b> , 20 <b>04</b> , to me personally known, who executed the above as their free acts and deeds.		

NOTARY PUBLIC EMBOSSER SEAL	STATE OF <b>Missouri</b>	COUNTY (OR CITY OF ST. LOUIS) <b>Cape Girardeau</b>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <b>16th</b> DAY OF <b>April</b> YEAR <b>2004</b>	
	NOTARY PUBLIC SIGNATURE <i>[Signature]</i>	MY COMMISSION EXPIRES
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <b>DEBRA J. GAINEY</b>	

FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>	APPROVED BY <i>[Signature]</i>	PERMIT NUMBER <b>0552</b>	EXPIRATION DATE <b>5-29-05</b>
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4-26-c4

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Site #1		PERMIT NUMBER 552	
COMPANY NAME Ralston Purina Company			
COUNTY Stoddard	1/4 SECTION Southwest	SECTION 21	
TOWNSHIP 27N	RANGE 11E	ACRES 144	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A			
MINERAL COMMODITY clay		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Ralston Purina Company		
ADDRESS Checkerboard Square		
CITY St. Louis	STATE MO	ZIP CODE 63164
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: May 1, 2035

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Site 1: Topography-Low hills with flat lowlands to the East.

Soils -Uplands, gravel and sand under 6-8 inches topsoil.  
-Lowlands, gravel and sand under 12-18 inches of topsoil.

Vegetation-Uplands, forestry with a variety of trees.  
Lowlands, agricultural

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MISSOURI LAND  
RECLAMATION COMMISSION

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6-18 inches

12

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Site 1: Dozers and excavators will be used to remove brush and stumps. Brush is burned or used for temporary erosion control.

Topsoil is removed with tractors and pan pulls to be deposited on graded reclamation areas or in stockpiles for future use.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Site 1: Using tractors with pan pulls, topsoil from a current stripping program is transported to and deposited on previously reclaimed pit area as needed or in stockpiles. Topsoil deposits are promptly seeded and covered with straw. Potential washout areas are dammed with hay bales or lined with rip-rap. There is currently 10-15 acre stockpile area East of the Active pit were 6-12 inches of topsoil with some clay fines are stored for future needs. This area is well vegetated and is monitored for erosion problems.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The spoil is material that is good for building road beds, levees and low places. The spoil materials when limed and fertilized will grow good grass. During our annual stripping program, spoil from current strip is used for levees, roads and to grade previously mined areas of the operating pit. Erosion is controlled with vegetation. When erosion does take place, it is contained within the pit and used to reshape grade as needed. See section A, part two for stockpile information.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

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MISSOURI LAND  
RECLAMATION COMMISSION**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Site maps should do.

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1

Clover, rye grass, fescue ~~Industrial development and/or wildlife habitat~~

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Early spring and fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

1. Disking with tractor
2. Lime and seeding done with spreader
3. Harrowing with tractor
4. Straw blown mulch where needed

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MISSOURI LAND  
RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients.  
Mulch will be applied to all slopes exceeding 5:1.

SEEDING SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	25-30 lbs /acre		
Rye Grass	18-20 lbs/acre		
Clover	6-8 lbs/acre		

REVEGETATION MIX #2

Orchard grass, alfalfa

PURPOSE OR LAND USE

Forestry (wildlife)

B. SEEDING OR PLANTING TIME

Early spring and fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

1. Grading done with dozer or tractor with blade.
2. Lime and seeding done with spreader.
3. Straw blown mulch where needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients.  
Mulch will be applied to all slopes exceeding 5:1.

SEEDING SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	15-18 lbs/acre	White pine or	700
Alfalfa	15 lbs/acre	Loblolly pine	

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The mine area will be returned to original contours where possible, or to terraced slopes suitable for forestry and wildlife habitat. The mine pit will consist of water impoundments for wildlife. The areas around the pit will be replanted for forestry slopes and the area around slurry deposits will be regraded and replanted as needed to provide an excellent wildlife habitat.

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MISSOURI LAND  
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading is done on an ongoing annual basis as we advance through the current operating pit. Grading is usually done in anticipation of converting the pit to a slurry pond. Final grading will be completed within twelve (12) months after the expiration of the permit.

**REPLACEMENT OF TOPSOIL**

Topsoil from a current stripping program is spread over a previous year's grading program. Final topsoil placement will be completed within twelve (12) months after the expiration of the permit.

**REVEGETATION**

Final revegetation will take place within 2 years of permit expiration depending on timing of growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**12 inches.**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	90
Water impoundments (for wildlife, agricultural, or development)	54


By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>Walter E. Cooper</i>		TITLE <i>Dir. of Prod. Supp.</i>	DATE <i>11/29/00</i>
NOTARY PUBLIC EMBOSSEY SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cape Girardeau</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>29th</i> DAY OF <i>NOV</i> <i>2000</i>		USE RUBBER STAMP IN CLEAR AREA BELOW 
	NOTARY PUBLIC SIGNATURE <i>Debra J. Gainey</i>	MY COMMISSION EXPIRES <i>10-23-03</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Debra J. Gainey</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>William S. [Signature]</i>		DATE APPROVED <i>12-1-00</i>	PERMIT NUMBER <i>0552</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Site #2		PERMIT NUMBER 552	
COMPANY NAME Ralston Purina Company			
COUNTY Stoddard	1/4 SECTION Northwest	SECTION 28 & 29	
TOWNSHIP 27N	RANGE 11E	ACRES 89	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A			
MINERAL COMMODITY clay		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Ralston Purina Company		
ADDRESS Checkerboard Square		
CITY St. Louis	STATE MO	ZIP CODE 63164
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.		

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: May 1, 2035

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Site 2: Topography-Low hills with flat lowlands to the East.

Soils           -Uplands, gravel and sand under 6-8 inches  
                  topsoil.  
                  -Lowlands, gravel and sand under 12-18 inches  
                  of topsoil.

Vegetation-Uplands, forestry with a variety of trees.  
                  Lowlands, agricultural

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING      IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

Site 2,    6-18 inches                      12                      INCHES      ☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Site 2: No additional topsoil removal is anticipated in this area.

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MISSOURI LAND  
RECLAMATION COMMISSION

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Site 2: Topsoil is currently stored in earthen berms around old sediment ponds. At final reclamation, these soils will be respread with dozers. These soils are currently well vegetated with grasses and signs of erosion are not apparent.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The spoil is material that is good for building road beds, levees and low places. The spoil materials when limed and fertilized will grow good grass. During our annual stripping program, spoil from current strip is used for levees, roads and to grade previously mined areas of the operating pit. Erosion is controlled with vegetation. When erosion does take place, it is contained within the pit and used to reshape grade as needed. See section A, part two for stockpile information.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Site maps should do.

**RECEIVED**

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MISSOURI LAND  
RECLAMATION COMMISSION

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**
**A. REVEGETATION (Attach additional sheets, if needed)**
**REVEGETATION MIX #1**

 Clover, rye grass, fescue ~~Industrial development and/or wildlife habitat~~
**PURPOSE OR LAND USE**
**B. SEEDING OR PLANTING TIME**

Early spring and fall

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

1. Disking with tractor
2. Lime and seeding done with spreader
3. Harrowing with tractor
4. Straw blown mulch where needed

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 MISSOURI LAND  
RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients.  
Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	25-30 lbs /acre		
Rye Grass	18-20 lbs/acre		
Clover	6-8 lbs/acre		

**REVEGETATION MIX #2**

Orchard grass, alfalfa

**PURPOSE OR LAND USE**

Forestry (wildlife)

**B. SEEDING OR PLANTING TIME**

Early spring and fall

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1. Grading done with dozer or tractor with blade.
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ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The mine area will be returned to original contours where possible, or to terraced slopes suitable for forestry and wildlife habitat. The mine pit will consist of water impoundments for wildlife. The areas around the pit will be replanted for forestry slopes and the area around slurry deposits will be regraded and replanted as needed to provide an excellent wildlife habitat.

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MISSOURI LAND  
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading is done on an ongoing annual basis as we advance through the current operating pit. Grading is usually done in anticipation of converting the pit to a slurry pond. Final grading will be completed within twelve (12) months after the expiration of the permit.

**REPLACEMENT OF TOPSOIL**

Topsoil from a current stripping program is spread over a previous year's grading program. Final topsoil placement will be completed within twelve (12) months after the expiration of the permit.

**REVEGETATION**

Final revegetation will take place within 2 years of permit expiration depending on timing of growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**12 inches.**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	66
Water impoundments (for wildlife, agricultural, or development)	23


By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>William J. Cook</i>		TITLE <i>Dir. of Prod. Supply</i>	DATE <i>11/29/00</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cape Girardeau</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>29th</i> DAY OF <i>NOV</i> <i>2000</i>		USE RUBBER STAMP IN CLEAR AREA BELOW 
	NOTARY PUBLIC SIGNATURE <i>Debra J. Gainey</i>	MY COMMISSION EXPIRES <i>10-23-03</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Debra J. Gainey</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>William S. Glavin</i>		DATE APPROVED <i>12-1-00</i>	PERMIT NUMBER <i>0552</i>

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

**RECEIVED**

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To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER Site #3		PERMIT NUMBER 552	
COMPANY NAME Ralston Purina Company			
COUNTY Stoddard	1/4 SECTION Southeast Northeast	SE 33 & 4	
TOWNSHIP 27N & 26N	RANGE 11E	ACRES 180	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A			
MINERAL COMMODITY clay		EST N/A	AR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Ralston Purina Company		
ADDRESS Checkerboard Square		
CITY St. Louis	STATE MO	ZIP CODE 63164
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY		CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT
NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.		

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: May 1, 2035

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Site 3: Topography-Low hills with flat lowlands to the North.

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RECLAMATION COMMISSION

Soils -Uplands, gravel and sand under 6-8 inches  
of topsoil.  
-Lowlands, gravel and sand under 12-18 inches  
of topsoil.

Vegetation-Uplands, forestry with a variety of trees.  
-Lowlands, agricultural.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

12

INCHES

☐ YES OR ☒ NO

Site 3, 6-18 inches.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Site 3: Dozers and excavators will be used to remove brush and stumps. Brush is burned or used for temporary erosion control.

Topsoil is removed with tractors and pan pulls to be deposited on graded reclamation areas or in stockpiles for future use.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Site 3: Using tractors with pan pulls, topsoil from a current stripping program is transported to and deposited on previously reclaimed pit area as needed or in stockpiles. Topsoil deposits are promptly seeded and covered with straw. Potential washout areas are dammed with hay bales or lined with rip-rap. There is currently a 10-15 acre stockpile area East of the Active pit were 6-12 inches of topsoil with some clay fines are stored for future needs. This area is well vegetated and is monitored for erosion problems.



**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The spoil is material that is good for building road beds, levees and low places. The spoil materials when limed and fertilized will grow good grass. During our annual stripping program, spoil from current strip is used for levees, roads and to grade previously mined areas of the operating pit. Erosion is controlled with vegetation. When erosion does take place, it is contained within the pit and used to reshape grade as needed. See section A, part two for stockpile information.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

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RECLAMATION COMMISSION**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Site maps should do.

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Clover, rye grass, fescue Industrial development and/or wildlife habitat Early spring and fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

1. Disking with tractor
2. Lime and seeding done with spreader
3. Harrowing with tractor
4. Straw blown mulch where needed

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RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients.  
Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	25-30 lbs /acre		
Rye Grass	18-20 lbs/acre		
Clover	6-8 lbs/acre		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

Orchard grass, alfalfa Forestry (wildlife) Early spring and fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

1. Grading done with dozer or tractor with blade.
2. Lime and seeding done with spreader.
3. Straw blown mulch where needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients.  
Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	15-18 lbs/acre	White pine or	700
Alfalfa	15 lbs/acre	Loblolly pine	

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The mine area will be returned to original contours where possible, or to terraced slopes suitable for forestry and wildlife habitat. The mine pit will consist of water impoundments for wildlife. The areas around the pit will be replanted for forestry slopes and the area around slurry deposits will be regraded and replanted as needed to provide an excellent wildlife habitat.

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RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading is done on an ongoing annual basis as we advance through the current operating pit. Grading is usually done in anticipation of converting the pit to a slurry pond. Final grading will be completed within twelve (12) months after the expiration of the permit.

**REPLACEMENT OF TOPSOIL**

Topsoil from a current stripping program is spread over a previous year's grading program. Final topsoil placement will be completed within twelve (12) months after the expiration of the permit.

**REVEGETATION**

Final revegetation will take place within 2 years of permit expiration depending on timing of growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**12 inches.**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	164
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	9
Water impoundments (for wildlife, agricultural, or development)	7


By my signature, I attest to the following:

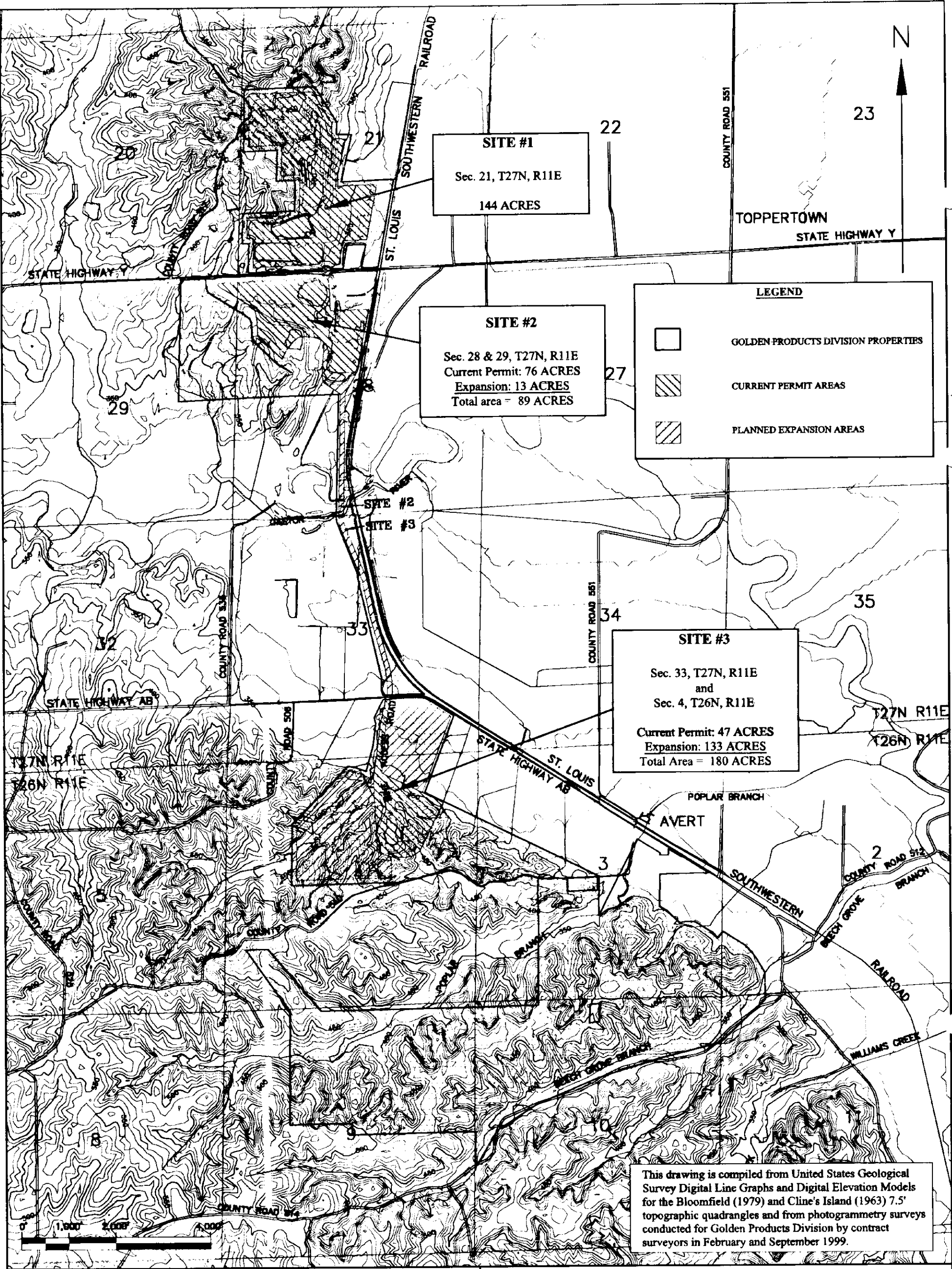
1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>William J. Cooper</i>		TITLE <i>Dir. of Prod. Supply</i>	DATE <i>11/29/00</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cape Girardeau</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>29th</i> DAY OF <i>NOV</i> <i>2000</i>		USE RUBBER STAMP IN CLEAR AREA BELOW 
	NOTARY PUBLIC SIGNATURE <i>Debra J. Gainey</i>	MY COMMISSION EXPIRES <i>10-23-03</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Debra J. Gainey</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>William J. Cooper</i>		DATE APPROVED <i>12-14-00</i>	PERMIT NUMBER <i>0552</i>



This drawing is compiled from United States Geological Survey Digital Line Graphs and Digital Elevation Models for the Bloomfield (1979) and Cline's Island (1963) 7.5' topographic quadrangles and from photogrammetry surveys conducted for Golden Products Division by contract surveyors in February and September 1999.

**GOLDEN PRODUCTS DIVISION**  
**RALSTON PURINA COMPANY**  
  
**STODDARD COUNTY, MISSOURI**

**MINE PERMIT # 0552**  
  
**SITE LOCATION MAP**

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**GOLDEN PRODUCTS DIVISION  
RALSTON PURINA COMPANY**

**STODDARD COUNTY, MISSOURI**

PREPARED BY: L. J. ALGEO

OCTOBER 6, 2000

**MINE PERMIT # 0552**

**SITE #3 PERMIT MAP**

Sec. 33, T27N, R11E

and

Sec. 4, T26N, R11E

**CURRENT PERMIT: 47 ACRES**

**EXPANSION: 133 ACRES**

**TOTAL AREA = 180 ACRES**

**SITE #3  
EXPANSION  
9 ACRES**

**SITE #3 POST - MINING LAND USE**

INDUSTRIAL DEVELOPMENT: 9 ACRES  
WILDLIFE HABITAT/FORESTRY: 164  
WATER IMPOUNDMENTS: 7 ACRES

0' 250' 500' 1,000'

**GOLDEN PRODUCTS  
DIVISION PROPERTY**

**TOPSOIL  
AND  
OVERBURDEN  
STOCKPILE**

**TOPSOIL  
AND  
OVERBURDEN  
STOCKPILE**

**PLANNED  
SEDIMENTATION  
BASIN  
4 ACRES**

**SITE #3  
EXPANSION  
47 ACRES**

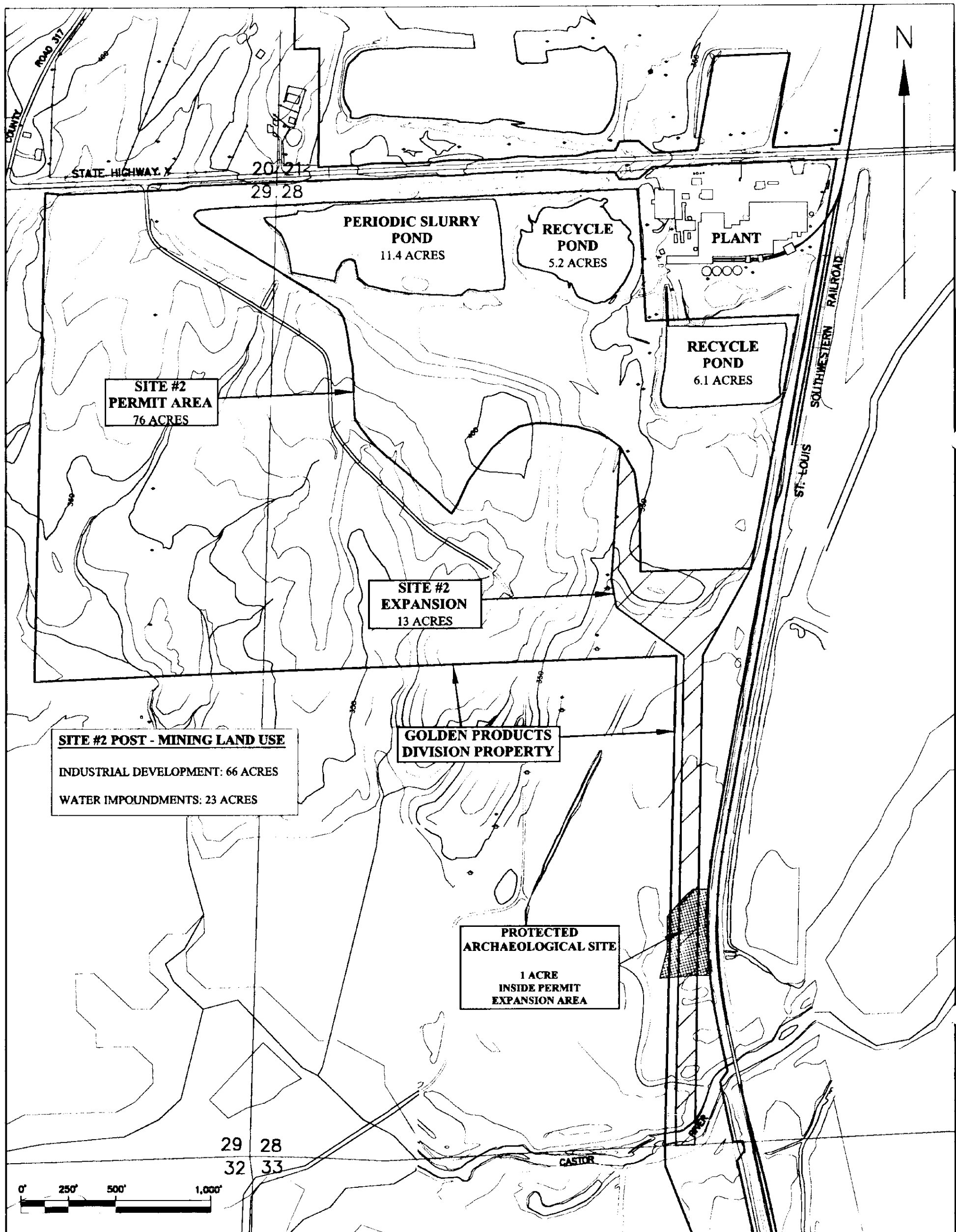
**PLANNED  
DETENTION  
BASIN  
3 ACRES**

**SITE #3  
PERMIT AREA  
47 ACRES**

**STREAM  
DIVERSIONS**

**SITE #3  
EXPANSION  
77 ACRES**

NOV 07 2000



**GOLDEN PRODUCTS DIVISION  
RALSTON PURINA COMPANY**

**STODDARD COUNTY, MISSOURI**

PREPARED BY: L. J. ALGEO

OCTOBER 6, 2000

**MINE PERMIT # 0552  
SITE #2**

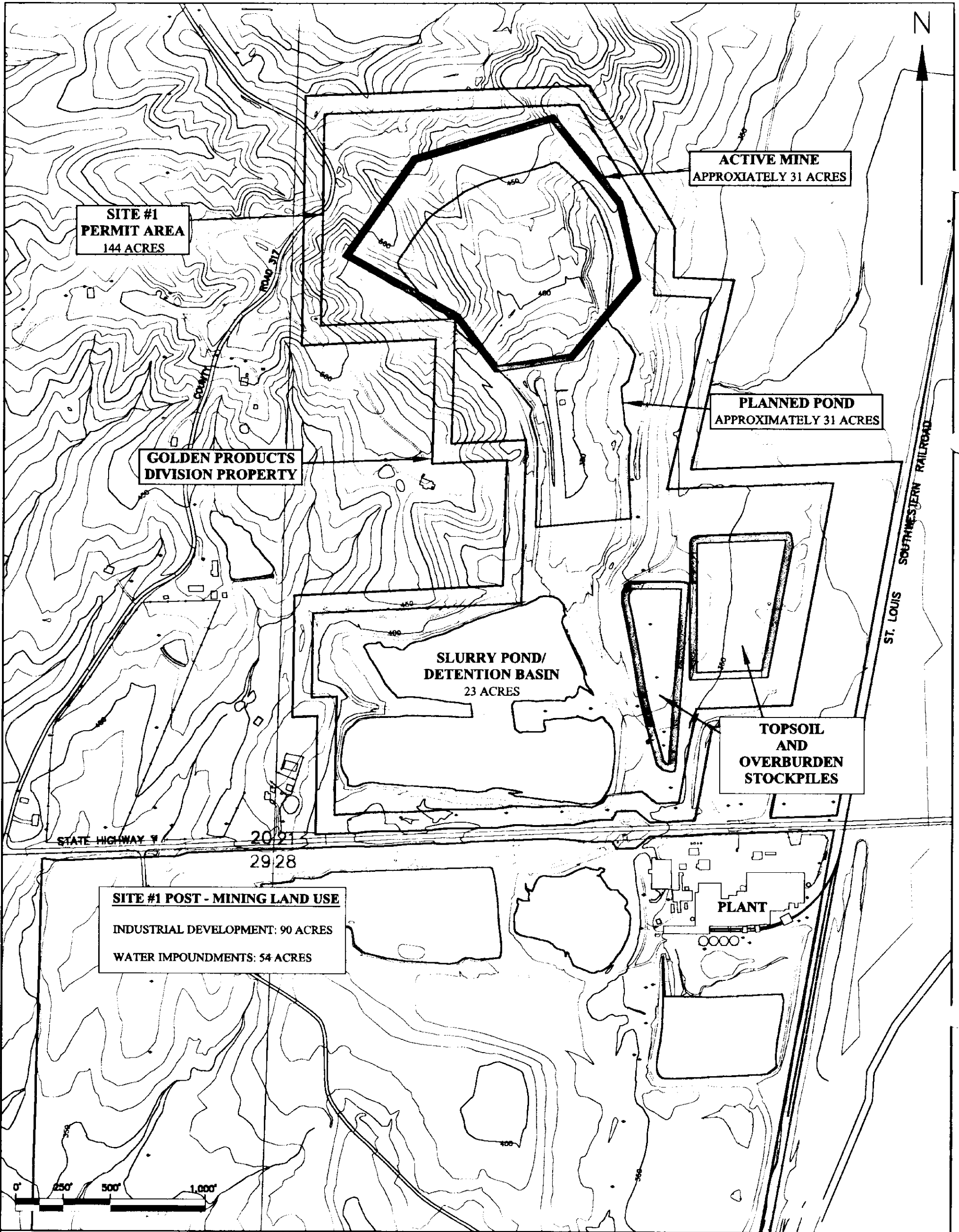
Sec. 28 & 29, T27N, R11E

Current Permit: 76 ACRES

Expansion: 13 ACRES

Total Area = 89 ACRES





**GOLDEN PRODUCTS DIVISION  
RALSTON PURINA COMPANY**

**STODDARD COUNTY, MISSOURI**

PREPARED BY: L. J. ALGEO

OCTOBER 6, 2000

**MINE PERMIT # 0552**

**SITE #1**  
Sec. 21, T27N, R11E  
144 ACRES

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OCT 10 2000  
MISSOURI LAND  
RECLAMATION COMMISSION